

Recipe App version 1.0

Application- Spring Boot

IDE- Eclipse

Front End- Bootstrap

Data- Raw data taken from internet

Description- This application reads json file containing the consolidated list of recipes with ingredients, pictures and links. The Home page will have a list of recipes sorted by their title in a table format. This application allows the user to search the recipes based on the selected ingredients.

Use Case 1












Input :Read recipe.json from resources

Output: Sorted list of all recipes. Lambda expression used for sorting based on recipe title.

Result

1. Refer - recipeList() function in Homepage.java controller.
Scriptlets have been used to refer Utility.java class under util package to read and display sorted list of recipes in home.jsp.
2. Enter <http://localhost:8080/> in the browser to view the result.

Recipe List

Recipes	Link	Ingredients	Images
Barbecued Grilled Portobello Sandwich	Click Here	[mushrooms, barbecue sauce, sandwich rolls, lettuce, tomato]	
Barbecued Grilled Portobello Sandwich	Click Here	[mushrooms, barbecue sauce, sandwich rolls, lettuce, tomato]	
Beef & Portobello Mushroom Stroganoff	Click Here	[mushrooms]	
Blue Ribbon Meatloaf	Click Here	[onions]	
Boiled Ham	Click Here	[ham, onions]	
Broccoli Casserole Recipe	Click Here	[onions]	
Bruschetta With Roasted Garlic and Cherry Tomatoes	Click Here	[garlic, italian bread]	
Bryannas Vegan Dulce De Leche Recipe	Click Here	[rice]	
Cheesy Hot Dog Rice	Click Here	[rice]	
Chicken Salad With Rice Noodles	Click Here	[rice]	
Chicken With Orange Sauce Recipe	Click Here	[rice]	

3. Junit Test Case

Junit test case implemented to test that recipe.json should not be empty.

Refer testReadRecipeJson() in UtilityTest.java.

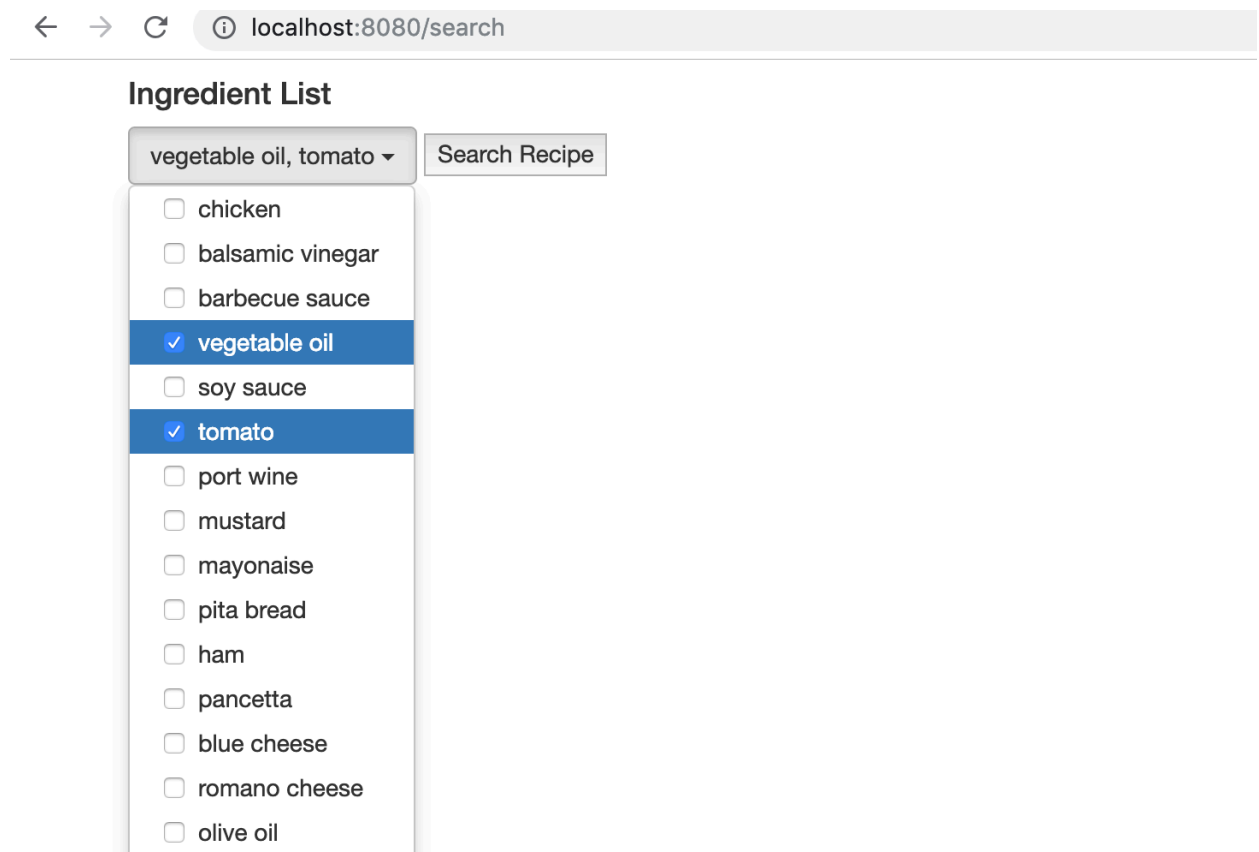
Use Case 2

Input – Read ingredients from recipe.json

Output- View having list of all ingredients from recipe.json with multi-select functionality and search button.

Result

1. Refer listIngredients() function in Homepage.java controller.
JSTL and EL have been used to understand it's advantage over scriptlets in *ingredients.jsp*
2. Enter <http://localhost:8080/search> in the browser to view the result.



The screenshot shows a web browser window with the address bar displaying "localhost:8080/search". The page title is "Ingredient List". Below the title, there is a multi-select dropdown menu currently showing "vegetable oil, tomato" with a downward arrow. To the right of the dropdown is a "Search Recipe" button. The dropdown menu is open, showing a list of ingredients with checkboxes. The selected items, "vegetable oil" and "tomato", are highlighted in blue. The other ingredients in the list are: chicken, balsamic vinegar, barbecue sauce, soy sauce, port wine, mustard, mayonaise, pita bread, ham, pancetta, blue cheese, romano cheese, and olive oil.

Ingredient	Selected
chicken	<input type="checkbox"/>
balsamic vinegar	<input type="checkbox"/>
barbecue sauce	<input type="checkbox"/>
vegetable oil	<input checked="" type="checkbox"/>
soy sauce	<input type="checkbox"/>
tomato	<input checked="" type="checkbox"/>
port wine	<input type="checkbox"/>
mustard	<input type="checkbox"/>
mayonaise	<input type="checkbox"/>
pita bread	<input type="checkbox"/>
ham	<input type="checkbox"/>
pancetta	<input type="checkbox"/>
blue cheese	<input type="checkbox"/>
romano cheese	<input type="checkbox"/>
olive oil	<input type="checkbox"/>

3. Junit Test Case
Junit test case implemented to test that ingredients list should not be empty.
Refer testReadIngredients() in UtilityTest.java.

Use Case 3

Input- Selected Ingredients from use case2.

Output- List of recipes which consists of all the given input ingredients.

For eg.,

1. If input is ["onions"], then it should list down all the recipe's which has onions in the list of ingredients
2. If input is ["onions", "mushrooms"] then it should list down all the recipe's which contains onions and mushrooms in the list of ingredients

Result

1. Refer displayRecipe() function in Homepage.java controller. searchRecipe() function of Utility.java has been used to search recipe based on the selected ingredients. Again JSTL and EL have been used to display recipe. There will be blank screen in case of no recipe of selected ingredients.
2. Enter <http://localhost:8080/list> in the browser to view the result.

Recipe List

Green Bean Casserole
Boiled Ham
Pulled Chicken Sandwiches (Crock Pot)
Blue Ribbon Meatloaf
Grilled Portobello Mushrooms
Spaghetti with Clams & Corn
Creamy Scrambled Eggs Recipe Recipe
Broccoli Casserole Recipe
Crock Pot Caramelized Onions
Grilled Chipotle Salmon With Pineapple Cilantro Rice
Roast Chicken with Rosemary

3. Junit Test case
Junit test case implemented to check the list of recipes of selected ingredients e.g. {"onions", "butter"}. Refer testSearchRecipe() in UtilityTest.java.

Recipe App Version 1.1

In next version data from recipe.json will be stored in the database and rest of the manipulation will be done using database.

Spring with Hibernate will be used.

Database PostgreSQL

Functionality will be included in Dao and Service packages

